



MICROLAB 45

quality tools

komax

MICROLAB 45

Seamless quality assurance is one of the most important competitive factors and the creation of micrograph pictures during production is indispensable. The MicroLab 45 micrograph laboratory is a central component within modern quality engineering.

Sophisticated concept for special applications

- Automatic feed for time-optimized quality inspection
- Precise alignment of the grinding plane
- Modern design and user interface
- Diamond cutting disc for high quality micrograph pictures
- Integrated maintenance trainer with reminder function
- Stand-alone etching and optic unit to ensure proper image creation

Robust and fast

- Wet cutting and grinding processes increase the lifetime of wear parts
- Two operators can work in parallel
- Up to 10.000 cuts with one cutting disk
- 200 - 500 grinds with the same sand paper

FAST AND RELIABLE QUALITY ASSURANCE



Automated precision

MicroLab 45 is designed for fast micrograph preparation of specimens up to a maximum diameter of 6 mm. The fully automatic transport system and the proven technology enable a short processing time. Parallel processes allow continuous micrograph preparation. Specimens can be clamped quickly and the cut surface can be determined easily and accurately. Without reclamping, the MicroLab 45 cuts and grinds the samples independently.

SmartVision – the complementary software for micrograph generation

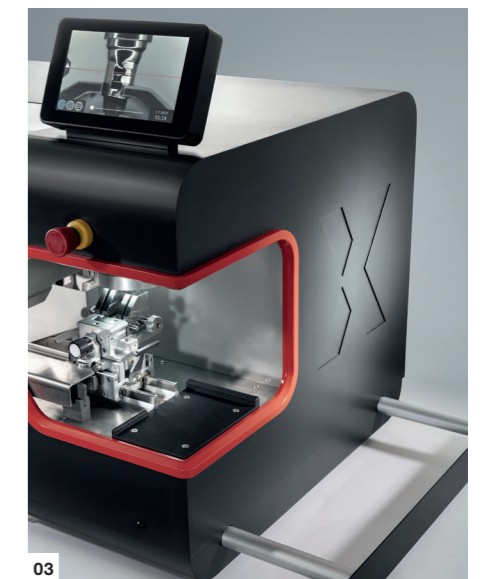
The software for the analysis of a micrograph, which includes functions such as image acquisition, measurement, evaluation and documentation, is integrated as standard.

Technical data

Processing range (max. contact-Ø)	0.5 – 6.0 mm (corresponds to approx. 0.08 – 16.0 mm ²)
Application range	all different crimp types
Materials	copper, aluminum and steel
Volume	large quantities
Power supply	110 - 240 V AC
Dimensions (LxWxH)	1021 × 640 × 637 mm

Smart Optic MicroLab 45

Resolution	20.0 megapixels
Power supply	240 V AC to 24 V DC
Dimensions (LxWxH)	148 x 570 x 250 mm



03



01



02



04

- 01 Diamond cutting disc for high quality results
- 02 Modern touch display
- 03 Positioning aid and handles
- 04 Continuous generation of micrographs due to parallel processes

Komax – leading the field now and in the future

As a pioneer and market leader in automated wire processing, Komax provides its customers with innovative solutions. Komax manufactures series and customer-specific machinery, catering to every degree of automation and customization. Its range of quality tools, test systems, and intelligent software and networking solutions complete the portfolio, and ensure safe, flexible, and efficient production.

Komax is a globally active Swiss company with highly qualified employees and development and production facilities on several continents. It provides local support to customers worldwide through its unique sales and service network and offers services that help them get the most out of their investments.

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